

21 April 1964

MEMORANDUM FOR THE RECORD

**SUBJECT: Visit to M-H, St. Petersburg, Fla.
17 April 1964**

1. Although not related to the INS, we discussed the current P-E gyro problems and the results of the assistance given by M-H. Briefly the problem which P-E is having with the Norden gyro is one of synchronous oscillation in the same frequency band as that which the gyros are to sense (up to 15 cycles/second). Consequently the gyro cannot distinguish the noise from the vehicle motion. It appears to be a bearing problem which would require a complete gyro motor redesign if true. M-H has recommended to P-E to more closely monitor Norden to get more test results from them and when the difficulty is definitely established, insist that Norden make a decision as to whether or not it can be fixed. (M-H is very doubtful.) In addition at the request of P-E, M-H has started on a new design to do the P-E job.

2. The coupler retrofit program is well underway. A copy of the status is attached.

3. The first Nav Panel retrofit including the new computer program and new control panel should be available by 1 June for installation and flight test. A pilots' manual detailing the operating procedure of the new Nav Panel will be prepared in the near future.

4. A very significant point was brought out during the discussions, i.e., with the exception of two recent flights, no INS flights have been updated with fixes. Fixes have been taken to compare actual location with coordinates given by the INS, but the INS has not been updated accordingly.

5. The high temperature cooling air being fed to the INS platform is a very critical problem and has been the cause of numerous out-of-spec flights. LAC has been queried as to the status of their investigation and possible remedies.

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